

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P947083

Luminaire Tested: **GALN-SB2C-750-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-750-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15749 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

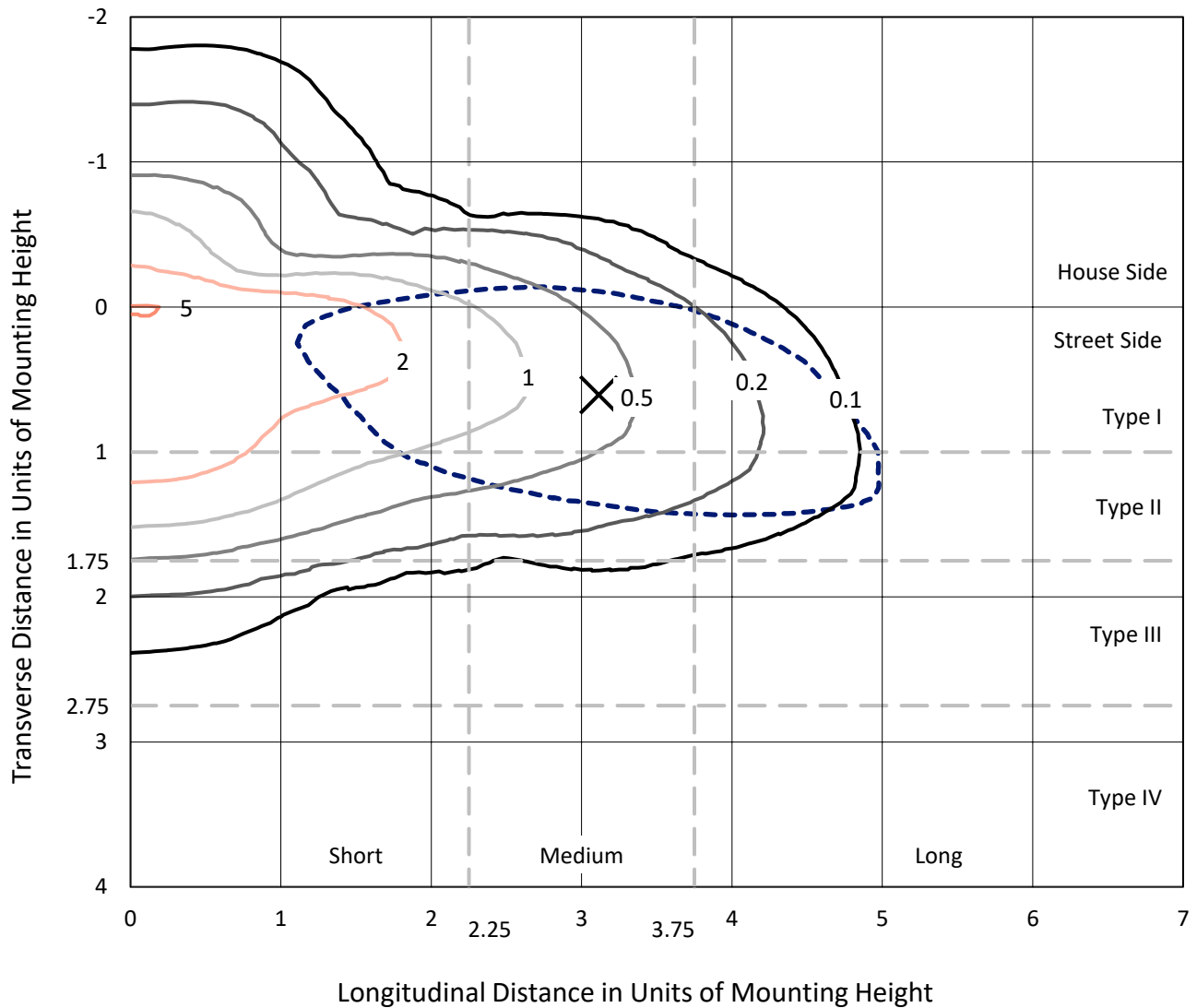
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

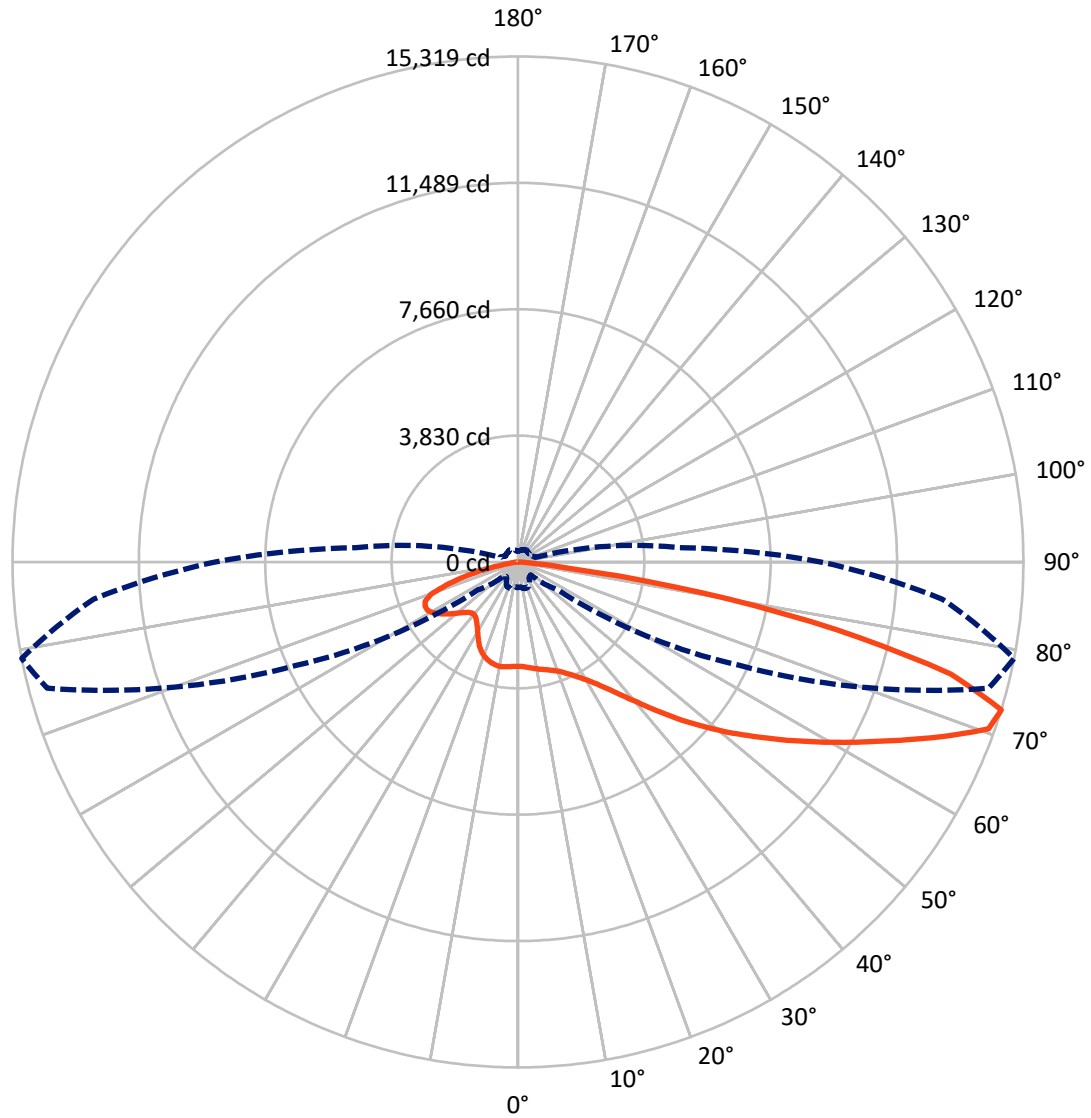
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3465.6 | 0.0 | 3465.6 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 12283.4 | 0.0 | 12283.4 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 15749.0 | 0.0 | 15749.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 287.0 | 1.8 |
| 10°-20° | 750.3 | 4.8 |
| 20°-30° | 1210.6 | 7.7 |
| 30°-40° | 1817.0 | 11.5 |
| 40°-50° | 2577.5 | 16.4 |
| 50°-60° | 3255.1 | 20.7 |
| 60°-70° | 3306.0 | 21.0 |
| 70°-80° | 2253.2 | 14.3 |
| 80°-90° | 292.3 | 1.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 15749.0 | 100.0 |
| 0°-180° | 15749.0 | 100.0 |

Coefficient of Utilization



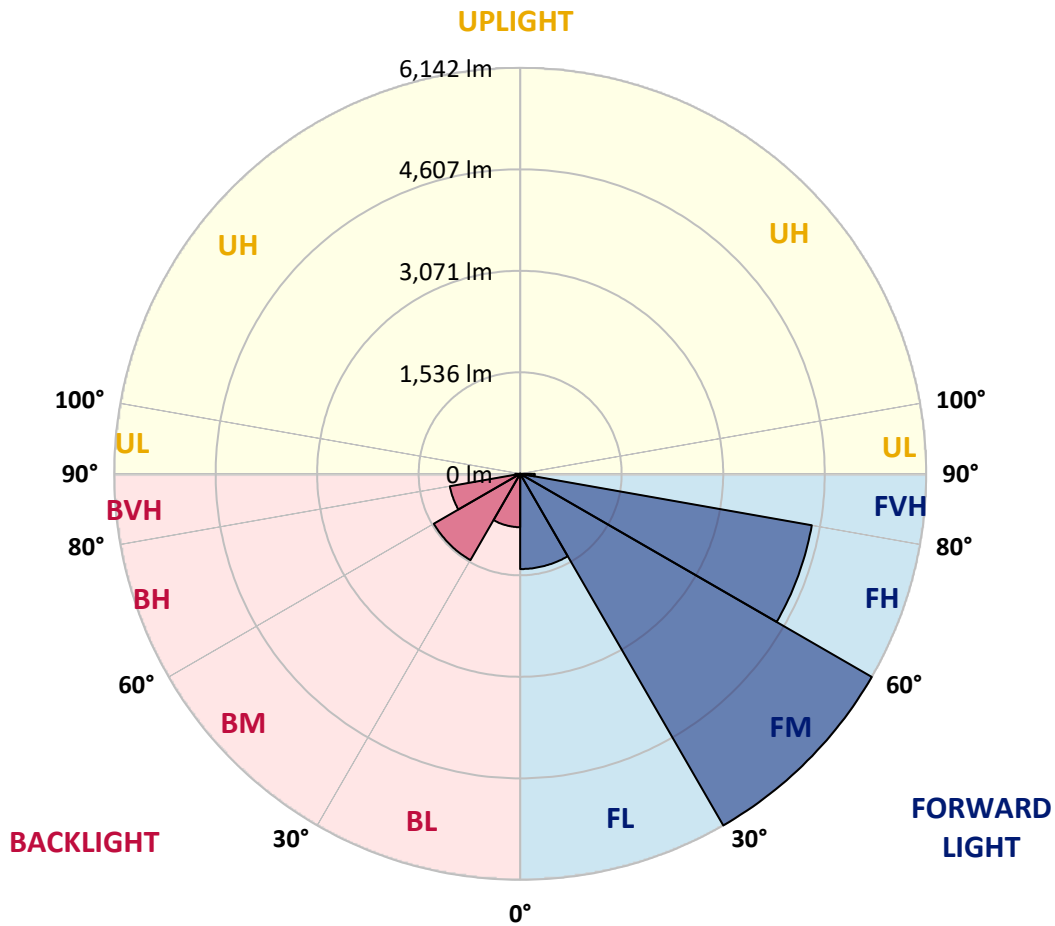
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1440.7 | 9.1 | | | |
| FM (30°-60°) | 6142.4 | 39.0 | | | |
| FH (60°-80°) | 4480.1 | 28.4 | | | G2/5000 |
| FVH (80°-90°) | 220.2 | 1.4 | | | G2/225 |
| BL (0°-30°) | 807.2 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1507.2 | 9.6 | B2/2500 | | |
| BH (60°-80°) | 1079.1 | 6.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 72.1 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Medium



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CATALOG NUMBER: GALN-SB2C-750-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 3161.5 | 3161.5 | 3161.5 | 3161.5 | 3161.5 | 3161.5 | 3161.5 | 3161.5 | 3161.5 | 3161.5 |
| 2.5° | 3163.1 | 3148.1 | 3157.3 | 3154.0 | 3158.1 | 3163.1 | 3164.8 | 3167.3 | 3175.6 | 3174.8 |
| 5° | 3156.5 | 3141.5 | 3154.0 | 3149.8 | 3160.6 | 3172.3 | 3182.3 | 3191.5 | 3204.8 | 3210.6 |
| 7.5° | 3142.3 | 3132.3 | 3144.8 | 3157.3 | 3177.3 | 3194.8 | 3208.9 | 3229.8 | 3248.9 | 3252.3 |
| 10° | 3059.8 | 3052.3 | 3081.5 | 3114.0 | 3169.0 | 3216.4 | 3247.3 | 3271.4 | 3292.3 | 3295.6 |
| 12.5° | 2974.0 | 2964.9 | 2997.3 | 3041.5 | 3130.6 | 3216.4 | 3281.4 | 3313.1 | 3331.4 | 3342.2 |
| 15° | 2959.9 | 2952.4 | 2970.7 | 3009.0 | 3083.2 | 3194.0 | 3304.7 | 3363.1 | 3378.9 | 3391.4 |
| 17.5° | 3028.2 | 3014.0 | 3021.5 | 3034.8 | 3078.2 | 3173.1 | 3323.1 | 3419.7 | 3443.9 | 3457.2 |
| 20° | 3186.5 | 3166.5 | 3154.8 | 3128.1 | 3120.6 | 3176.5 | 3321.4 | 3488.0 | 3519.7 | 3536.3 |
| 22.5° | 3397.2 | 3383.9 | 3358.9 | 3291.4 | 3218.1 | 3217.3 | 3353.1 | 3575.5 | 3634.6 | 3650.5 |
| 25° | 3652.1 | 3632.1 | 3600.5 | 3508.8 | 3368.1 | 3298.1 | 3406.4 | 3687.1 | 3786.3 | 3790.4 |
| 27.5° | 3945.4 | 3915.4 | 3872.1 | 3751.3 | 3561.3 | 3424.7 | 3488.0 | 3815.4 | 3960.4 | 3958.7 |
| 30° | 4254.4 | 4224.4 | 4178.6 | 4032.0 | 3792.9 | 3595.5 | 3601.3 | 3953.7 | 4167.0 | 4157.8 |
| 32.5° | 4480.2 | 4457.7 | 4448.5 | 4335.2 | 4059.5 | 3797.1 | 3731.3 | 4107.0 | 4421.9 | 4413.6 |
| 35° | 4653.5 | 4624.3 | 4635.1 | 4577.7 | 4350.2 | 4022.8 | 3890.4 | 4289.4 | 4731.8 | 4730.9 |
| 37.5° | 4825.1 | 4799.3 | 4808.4 | 4770.1 | 4619.3 | 4309.4 | 4084.5 | 4512.7 | 5115.8 | 5134.1 |
| 40° | 4981.7 | 4954.2 | 4990.9 | 4955.0 | 4828.4 | 4614.3 | 4305.3 | 4765.1 | 5560.7 | 5595.7 |
| 42.5° | 5075.8 | 5054.2 | 5115.0 | 5115.8 | 5010.0 | 4871.7 | 4547.7 | 5043.3 | 6075.5 | 6153.8 |
| 45° | 5108.3 | 5100.8 | 5192.5 | 5211.6 | 5170.8 | 5020.9 | 4765.9 | 5346.6 | 6630.3 | 6770.3 |
| 47.5° | 5073.3 | 5059.2 | 5185.8 | 5256.6 | 5289.1 | 5090.8 | 4946.7 | 5674.8 | 7196.8 | 7401.7 |
| 50° | 4896.7 | 4869.2 | 5057.5 | 5206.6 | 5322.4 | 5136.6 | 5129.1 | 6053.8 | 7840.8 | 8064.9 |
| 52.5° | 4579.3 | 4558.5 | 4772.6 | 5031.7 | 5249.1 | 5159.1 | 5334.1 | 6467.9 | 8452.2 | 8742.1 |
| 55° | 4173.6 | 4146.1 | 4381.9 | 4720.1 | 5066.7 | 5151.6 | 5539.0 | 6931.1 | 9173.7 | 9467.7 |
| 57.5° | 3530.5 | 3475.5 | 3773.8 | 4173.6 | 4769.3 | 5142.5 | 5752.3 | 7391.7 | 9906.7 | 10259.1 |
| 60° | 2592.5 | 2510.8 | 2876.6 | 3350.6 | 4187.8 | 5053.3 | 6016.4 | 7908.2 | 10786.5 | 11103.9 |
| 62.5° | 1509.5 | 1462.0 | 1701.1 | 2143.5 | 3156.5 | 4528.5 | 6164.6 | 8508.9 | 11651.2 | 11984.4 |
| 65° | 1172.1 | 1158.8 | 1179.6 | 1213.8 | 1756.9 | 3390.6 | 5707.3 | 9094.5 | 12750.8 | 12984.1 |
| 67.5° | 1072.1 | 1062.2 | 1071.3 | 1007.2 | 891.4 | 1888.5 | 4515.2 | 9242.8 | 13928.8 | 14070.4 |
| 70° | 953.0 | 941.4 | 971.3 | 916.4 | 701.4 | 858.9 | 2917.4 | 8704.6 | 14866.0 | 15131.7 |
| 72.5° | 776.4 | 763.1 | 833.1 | 808.1 | 590.6 | 551.5 | 1465.4 | 7425.9 | 14767.7 | 15319.1 |
| 75° | 596.5 | 589.0 | 672.3 | 693.1 | 481.5 | 434.0 | 703.1 | 5519.9 | 12995.7 | 13551.4 |
| 77.5° | 463.2 | 457.3 | 499.8 | 575.6 | 388.2 | 336.6 | 432.4 | 3501.4 | 9793.5 | 9890.9 |
| 80° | 347.4 | 330.7 | 369.9 | 445.7 | 302.4 | 245.8 | 293.2 | 2041.8 | 6190.5 | 5611.5 |
| 82.5° | 217.4 | 209.1 | 241.6 | 297.4 | 213.3 | 169.1 | 190.8 | 1128.0 | 2480.9 | 1461.2 |
| 85° | 124.1 | 120.8 | 131.6 | 169.9 | 115.8 | 97.5 | 109.1 | 498.2 | 453.2 | 311.6 |
| 87.5° | 50.0 | 48.3 | 60.0 | 75.8 | 42.5 | 35.8 | 38.3 | 120.0 | 100.0 | 92.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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 CATALOG NUMBER: GALN-SB2C-750-U-SL2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3161.5 | 0° | 3161.5 | 3161.5 | 3161.5 | 3161.5 | 3161.5 | 3161.5 | 3161.5 | 3161.5 | 3161.5 | 3161.5 |
| 3174.0 | 2.5° | 3170.6 | 3170.6 | 3159.0 | 3140.6 | 3119.8 | 3106.5 | 3084.8 | 3079.0 | 3056.5 | 3049.8 |
| 3202.3 | 5° | 3208.9 | 3202.3 | 3166.5 | 3114.8 | 3044.0 | 2979.0 | 2907.4 | 2862.4 | 2799.1 | 2776.6 |
| 3258.1 | 7.5° | 3257.3 | 3238.9 | 3177.3 | 3064.0 | 2915.7 | 2769.9 | 2618.3 | 2503.3 | 2393.4 | 2354.2 |
| 3303.9 | 10° | 3301.4 | 3275.6 | 3170.6 | 2972.4 | 2715.8 | 2463.4 | 2221.8 | 2052.7 | 1924.4 | 1871.9 |
| 3354.7 | 12.5° | 3345.6 | 3298.1 | 3126.5 | 2819.9 | 2431.7 | 2089.3 | 1831.9 | 1700.3 | 1621.1 | 1557.8 |
| 3396.4 | 15° | 3387.2 | 3320.6 | 3058.2 | 2615.8 | 2120.1 | 1772.8 | 1582.8 | 1477.8 | 1414.5 | 1372.9 |
| 3457.2 | 17.5° | 3435.5 | 3339.7 | 2955.7 | 2356.7 | 1823.6 | 1553.7 | 1398.7 | 1335.4 | 1322.9 | 1317.9 |
| 3540.5 | 20° | 3503.0 | 3357.2 | 2820.7 | 2066.8 | 1605.3 | 1378.7 | 1298.7 | 1292.9 | 1292.1 | 1289.6 |
| 3640.5 | 22.5° | 3575.5 | 3378.1 | 2642.5 | 1803.6 | 1419.5 | 1269.6 | 1255.4 | 1243.8 | 1236.3 | 1235.4 |
| 3761.3 | 25° | 3661.3 | 3384.7 | 2419.2 | 1587.8 | 1261.3 | 1217.9 | 1201.3 | 1183.8 | 1178.8 | 1178.8 |
| 3898.7 | 27.5° | 3744.6 | 3362.2 | 2159.3 | 1400.4 | 1172.1 | 1170.4 | 1148.8 | 1143.0 | 1142.1 | 1144.6 |
| 4055.3 | 30° | 3827.9 | 3319.7 | 1901.0 | 1227.1 | 1120.5 | 1120.5 | 1113.0 | 1117.1 | 1120.5 | 1128.8 |
| 4270.3 | 32.5° | 3940.4 | 3274.8 | 1685.3 | 1098.8 | 1075.5 | 1067.1 | 1074.6 | 1083.0 | 1086.3 | 1097.1 |
| 4552.7 | 35° | 4105.3 | 3243.1 | 1513.7 | 1028.8 | 1028.8 | 1018.0 | 1022.2 | 1020.5 | 1013.0 | 1008.0 |
| 4894.2 | 37.5° | 4323.6 | 3241.4 | 1372.0 | 996.3 | 989.7 | 988.0 | 988.8 | 978.0 | 948.9 | 913.9 |
| 5307.4 | 40° | 4586.0 | 3286.4 | 1262.9 | 973.8 | 968.8 | 978.8 | 973.8 | 944.7 | 864.7 | 803.9 |
| 5815.6 | 42.5° | 4938.4 | 3414.7 | 1192.9 | 946.4 | 961.4 | 973.8 | 953.9 | 853.1 | 798.9 | 758.1 |
| 6394.6 | 45° | 5353.2 | 3623.0 | 1157.1 | 917.2 | 947.2 | 962.2 | 865.5 | 821.4 | 778.1 | 728.9 |
| 7026.0 | 47.5° | 5823.1 | 3885.4 | 1148.8 | 889.7 | 915.5 | 924.7 | 828.1 | 808.1 | 758.9 | 705.6 |
| 7660.8 | 50° | 6334.6 | 4196.1 | 1171.3 | 857.2 | 869.7 | 838.1 | 815.6 | 797.2 | 746.4 | 693.9 |
| 8311.4 | 52.5° | 6863.6 | 4538.5 | 1216.3 | 813.1 | 823.9 | 788.9 | 810.6 | 794.7 | 738.9 | 668.1 |
| 8983.7 | 55° | 7383.4 | 4883.4 | 1259.6 | 761.4 | 777.2 | 744.8 | 796.4 | 784.7 | 704.8 | 624.8 |
| 9701.0 | 57.5° | 7911.6 | 5226.6 | 1302.1 | 715.6 | 732.3 | 702.3 | 773.9 | 758.1 | 666.4 | 584.8 |
| 10484.1 | 60° | 8460.6 | 5559.8 | 1322.1 | 671.4 | 683.1 | 663.1 | 739.8 | 712.3 | 623.1 | 544.0 |
| 11253.8 | 62.5° | 8974.6 | 5837.3 | 1289.6 | 627.3 | 634.8 | 626.5 | 694.8 | 658.1 | 579.8 | 498.2 |
| 12056.0 | 65° | 9490.2 | 6002.2 | 1189.6 | 584.0 | 585.6 | 581.5 | 631.5 | 599.8 | 529.0 | 458.2 |
| 12758.3 | 67.5° | 9957.6 | 6094.7 | 1030.5 | 537.3 | 533.2 | 531.5 | 572.3 | 536.5 | 479.8 | 418.2 |
| 13292.3 | 70° | 10056.7 | 5859.7 | 787.2 | 482.3 | 482.3 | 478.2 | 507.3 | 470.7 | 425.7 | 375.7 |
| 12909.9 | 72.5° | 9185.3 | 4929.2 | 559.0 | 419.9 | 426.5 | 418.2 | 442.4 | 411.5 | 370.7 | 337.4 |
| 11126.3 | 75° | 7406.7 | 3614.6 | 406.5 | 355.7 | 367.4 | 353.2 | 375.7 | 354.1 | 319.1 | 318.2 |
| 7667.5 | 77.5° | 5089.2 | 2235.1 | 294.9 | 293.2 | 301.6 | 283.2 | 309.1 | 297.4 | 265.7 | 251.6 |
| 3337.2 | 80° | 2171.8 | 891.4 | 214.9 | 226.6 | 226.6 | 209.9 | 239.9 | 243.3 | 215.8 | 209.1 |
| 644.0 | 82.5° | 432.4 | 253.3 | 150.8 | 155.8 | 146.6 | 141.6 | 169.9 | 188.3 | 259.9 | 289.1 |
| 194.1 | 85° | 130.0 | 93.3 | 90.8 | 85.0 | 75.0 | 75.8 | 100.0 | 189.1 | 233.3 | 133.3 |
| 64.1 | 87.5° | 35.8 | 23.3 | 24.2 | 19.2 | 15.8 | 20.8 | 34.2 | 143.3 | 78.3 | 33.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| <u>180°</u> |
|-------------|
| 3161.5 |
| 3060.7 |
| 2793.2 |
| 2359.2 |
| 1883.5 |
| 1578.6 |
| 1380.4 |
| 1321.2 |
| 1297.9 |
| 1244.6 |
| 1183.8 |
| 1151.3 |
| 1134.6 |
| 1106.3 |
| 1019.7 |
| 914.7 |
| 802.2 |
| 756.4 |
| 725.6 |
| 701.4 |
| 688.1 |
| 663.1 |
| 620.6 |
| 583.1 |
| 541.5 |
| 497.3 |
| 453.2 |
| 413.2 |
| 374.0 |
| 327.4 |
| 286.6 |
| 235.8 |
| 209.1 |
| 289.9 |
| 115.0 |
| 28.3 |
| 0.0 |

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